BRUHAT BANGALORE MAHANAGARA PAILKE

CONSTRUCTION OF ADDITIONAL CLASS ROOMS, TOILET AND PROVIDING SCHOOL ACCESSORIES TO YELAHANKA GOVERNMENT JUNIOR COLLEGE, YELAHANKA, BANGALORE IN WARD NO. 01

SUMP (25,000 LTRS CAPACITY)

Est.cost. Rs. 246000.00

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
1	Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, **in hard soil** not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specification								
	S.R.page 5 item 2.4								
		1	4.30	4.30	2.10	38.83			
						38.83	Cumt	**283.02**	**10989.38**
	Basic Rate:	267.00							
	Area Weightage @ 6%	16.02							
	Total	283.02							
2	Providing and laying in position Plain Cement Concrete of mix 1:3:6 with OPC cement @ 220kgs ,with 40mm and down size graded granite metal coarse aggregates @ 0 .892 cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation including cost of all materials,labour, HOM of machinery ,curing complete as per specifications.								
	S.R.page 12 item 4.2								
		1	4.00	4.00	0.15	2.40			
						2.40	Cumt	**5139.94**	**12335.86**
	Basic Rate:	4849.00							
	Area Weightage @ 6%	290.94							
	Total	5139.94							
3	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface** such as walls at any thicknes including cost of all materials, labour complete as per specifications and direction of the Engineer in charge.								
	S.R.page 15 item 4.31								
	Sump Tank Side Walls	4	4.00		1.80	28.80			
		4	3.70		1.80	26.64			
						55.44	sqmt	**301.04**	**16689.66**
	Basic Rate	284.00							
	Area Weightage 6%	17.04							
	Total	**301.04**							
4	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as roofs landings balconies and likes thickness upto 200 mm including cost of all materials labour complete as per specifications upto 3.50 m from Ground level								
	S.R.page 15 Item No. 4.18							323.30	4784.84
	Roof Slab	1	4.00	3.70		14.80			
						14.80	Sqmt	**18.30**	**270.84**
	Basic Rate:	305.00							
	Area Weightage @ 6%	18.30							
	Total	~~18.30~~ 323.30							

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
5	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications								
	S.R.page 13 item 4.11								
	For Bottom slab	1	4.00	4.00	0.20	3.20			
	For Retaining wall	2	4.00	0.15	1.80	2.16			
	For Retaining wall	2	3.70	0.15	1.80	2.00			
	Top slab	1	4.00	4.00	0.15	2.40			
						9.76			
	Deductions	1	0.60	0.60	0.15	0.05			
						9.70	Cumt	**6083.34**	**59032.73**
	Basic Rate:	5739.00							
	Area Weightage @ 6%	344.34							
	Total	6083.34							
6	KSRB 4.9.2 Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.								
	S.R.page 17 item 4.46.2								
	Retaining wall					**9.70**	Cumt		
	@ 2 1/2%					0.24			
	@ 7850 kg/cmt					1904.41	kg (ii)		
						1.90	M.T	68513.10	130477.03
	Basic Rate:	64635.00				7.24		58229.24	130483.02
	Area Weightage @ 6%	3878.10							
	Total	68513.10							
7	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering,, Providing and removing scaffolding, including cost of materials, labour, lead, lift, curing curing complete as per specification and Extra for providing and mixing waterproofing compound in cement plaster work at one kg per bag or in the proportion recommended by the manufacturers, for cement mortar 1:3, 12mm thick cost of materials complete as per specifications.								
	S.R.page 110 item 15.21 and 15.23								
	Bottom 183	1	4.00	4.00	-	16.00			
	Ceiling 7	1	4.00	4.00	-	16.00		201.40	
	190					**32.00**	Sqm	201.93	6461.76
	Basic Rate	190.50	190.00						
	Area Weightage 6%	11.43	11.40						
	Total	**201.93**	201.40						
8	Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherver required smooth rendering, Providing and removing scaffolding, cost of materials, labour, curing complete as per specification and Extra for providing and mixing waterproofing compound in cement plaster work at one kg per bag or in the proportion recommended by the manufacturers, for cement mortar 1:4, 18mm thick cost of materials complete as per specifications.								

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	S.R.page 112 & 113 item 15.15 and 15.23								
	side walls	2	4.00		1.80	14.4			
		2	3.70		1.80	13.32			
	Basic Rate	238.00				27.72	Sqm	252.28	6993.20
	Area Weightage 6%	14.28							
	Total	252.28							
9	Providing and fixing square tank covers of size 24x24								
	Page No. XXXIV								
		1				1	No	1273.00	1273.00
10	Providing 20mm square M.S.Footrest and fixing in manhole with 1:3:6 cement concrete block of 20x20x10 cms using 20mm an ddown size metal of size including cost of materials, labour charges, curing complete as per specifications. S.R.page70 item 11.44								
	Basic Rate:	262.00				4	No	277.72	1110.88
	Area Weightage @ 6%	15.72							
	Total	277.72							
11	Transportation of excavated earth by mechanical means including loading and unloading with a lead of 20 kmtr and dispersing the same as directed.								
	Loading and unloading I.No.17.1			62.20		38.83	Cumt	114.20	4434.27
	for Haulage(surface road Rs. 2.9 T/Km)								
	(density of debris 1.30 t/cum)								
	for 20kms =20x2x1.30			52.00					
				114.20					
12	Miscellaneous and unforcen charges						TOTAL		245634.34
									365.66
	(RUPEES TWO LAKHS FORTY SIX THOUSAND ONLY)						TOTAL:		246000.00

CERTIFICATES

1) The work spot has been inspected and found to be necessary
2) This estimate is prepared as per KPWD SR. of 2015-16 & Approved Rates
3) The provisions were made in this estimate are necessary and adequate.
4) This works come under B.B.M.P. limits.
5) The work is not Spilt Up.

Assistant Engineer
Project Sub Division
Yelahanka Zone, BBMP

Assistant Executive Engineer 21/02/18
Project Sub Division
Yelahanka Zone, BBMP

Executive Engineer 21/2/16.
Project division
Yelahanka Zone, BBMP Bnagalore